



***Draft FPC Hatchery
Release Data Mapping
Application***

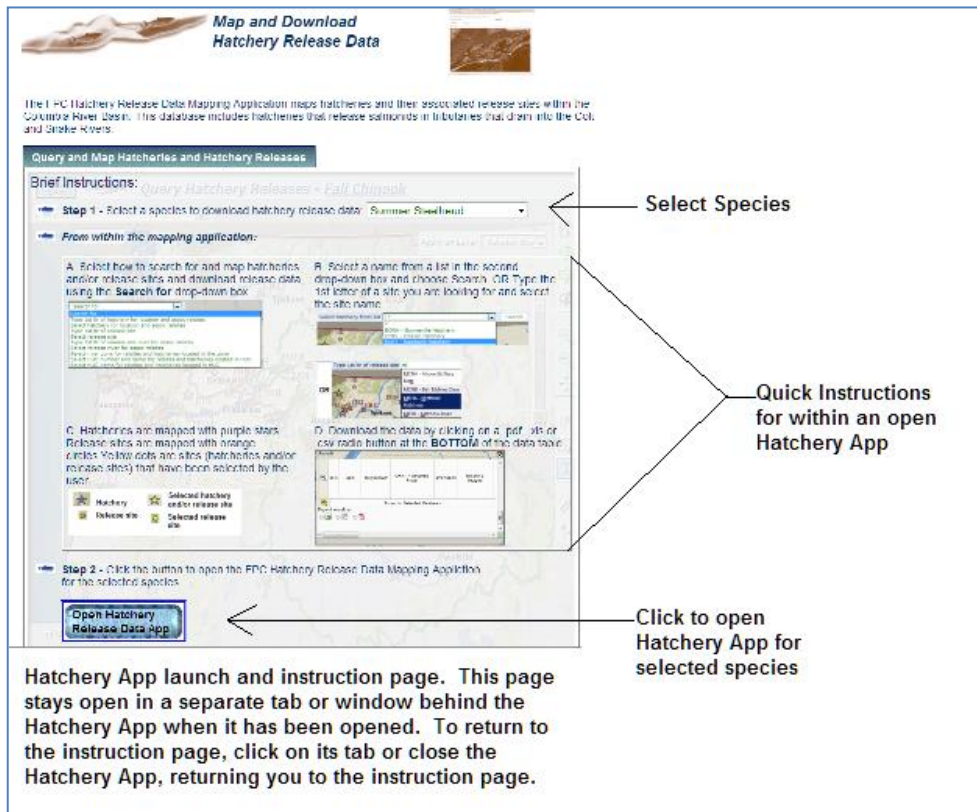
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To open the Hatchery Release Data Mapping Query:

1. Select **Hatchery Data / Hatchery Queries** from the main menu. Select the link **Hatchery Release Data Map Query**. This opens the FPC Hatchery App – Instructions page.



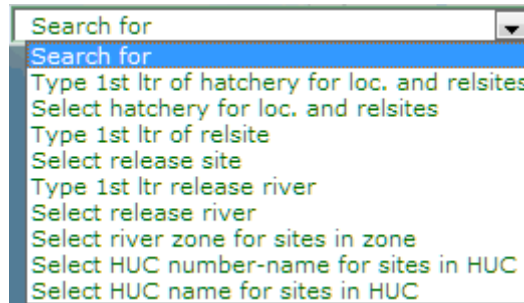
2. From the **Instructions page** choose a **Species** to download and map hatchery release data.

Note: there are brief instructions for using an opened Hatchery Map Application window presented between the select species and Open Hatchery Release Data App button.
3. Select the **Open Hatchery Release Data App button**. This opens a FPC Hatchery Release Data Mapping Application for the selected species. The instructions page stays open behind the Hatchery App in a separate tab or window for your reference.

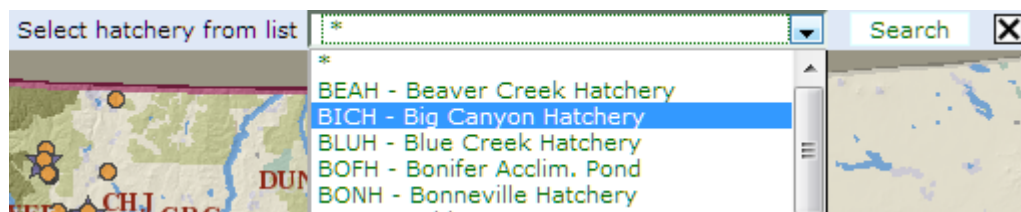


Quick Reference Instructions to Search for Hatchery Release Data

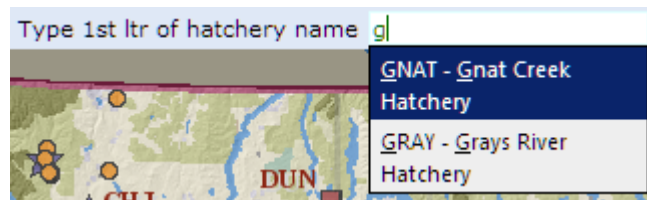
- From within the Hatchery Release Data Mapping Application, use the **Search for** drop-down menu to select how to search for and map hatcheries and release sites and download release data for the selected species. **You can search for:** (1) a hatchery, its associated release sites, and release data; (2) a release site and release data for the site; (3) a release river, its associated release sites and release data; (4) a river zone and any hatcheries and release sites located in that river zone and their release data; and (5) a HUC (watershed) and any hatcheries and release sites located in the HUC and their release data.



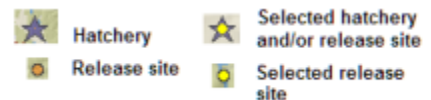
- After choosing what to search for, a second drop-down box appears. Either select a name from a list in the second drop-down box and choose **Search**. OR Type the 1st letter of a site you are looking for and select the site name.



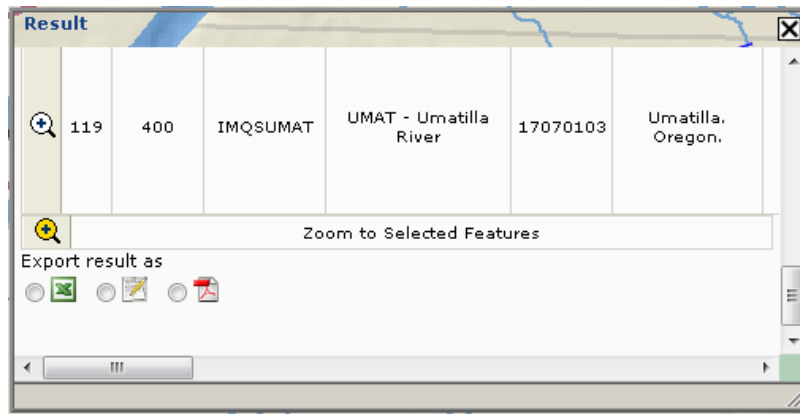
OR



- Within the main map, **Hatcheries** are mapped with purple stars. **Release sites** are mapped with orange circles. Yellow dots are sites (hatcheries and/or release sites) that have been **selected** by the user's query.



- After selecting a site or location from the second drop-down menu, the map zooms to the selected site(s) and the **Result** dialog box appears in the center of the main map. **To save the release data**, scroll down to the **BOTTOM** of the result dialog box and click on a .pdf, .xls or .csv radio button to save the release data. **To view the map**, close the result dialog box by clicking on the X button. Once the result dialog box is closed, it can be reopened for the current search criteria (hatchery, release data, release river, river zone or HUC) by clicking the **Search** button next to the search criteria from Step 2.



Notes about application and data:

1. The legend shows the colors, symbols and scales at which regional (1:6,000,000), river zonal (1:2,500,000) and local (1:250,000) objects are displayed on the map. For information on the regional, river zonal and local area base map data, see the detailed instructions.
2. Points for some release sites that are named for the tributary (e.g., Umatilla River) are assumed to be ½ mile upstream from the mouth of the tributary and may not indicate exactly where fish were/are released, unless the FPC staff had data to the contrary. For more information, see Hatchery Mapping Application metadata.
3. For each species and release site combination, all historical and current year data are provided in the data table. For more information (i.e. field names and definitions), see Hatchery Mapping Application metadata.

Using Hatchery Release Data Application Map Tools

The main window of the Hatchery Release Data Mapping Application allows the user to quickly search for hatcheries and their associated release sites and data (instructions to quickly search for data are located in the quick reference instructions section). In addition, it provides map tools for other uses including:

1. Several tools for zooming-in, zooming-out, panning, identifying x and y coordinates and returning to previous extents.
2. Displaying or hiding base map reference data (regional, river zonal and local data) and hatchery and release site data.
3. Getting help and data information.
4. Identifying sites with using the tool tip, identify, or select tools
5. Measuring distances, pinpointing and labeling custom locations on maps, printing maps and/or downloading maps.

Main Window

The **main window** is made up of several sections. These include:

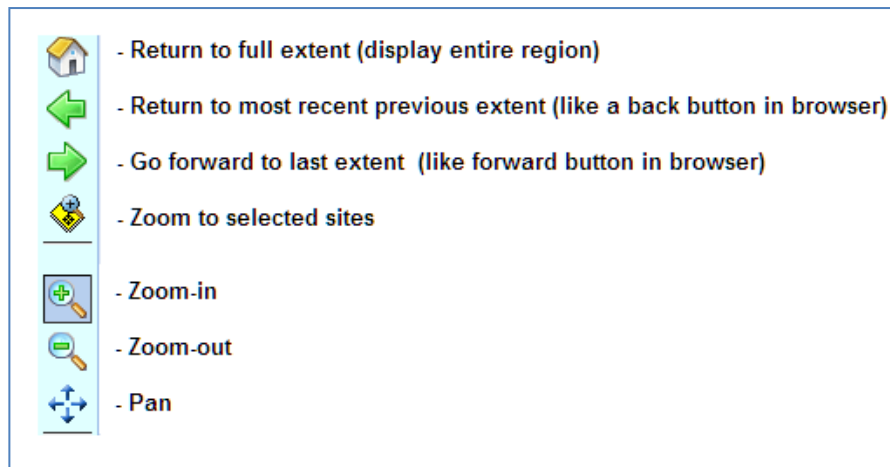
The **Main Window** of the Application includes map tools used to perform zooming, displaying and hiding map data, getting help, identifying sites and printing or downloading maps. The figure on page 5 provides a detailed explanation of each of the features that are found on this Main Window of the Application.

Map Tools for Zooming, Panning, X and Y coordinates, and Returning to Previous Extents

The first two sections of the **Toolbar** include the map tools for zooming, panning and returning to previous extents. In addition to the toolbar, there are two other tools for changing the map scale: (1) the representative fraction scale drop-down menu and (2) the zooming slide bar. There are four map tools that allow the user to understand the current map scale and specific location data. These include: (1) current representative fraction textbox, (2) the scale bar, (3) the x and y coordinates of the mouse pointer and (4) the Columbia River Basin overview map.

Toolbar Zooming, Panning and Map Extent Tools

There is a toolbar located on the right-hand side of the application that contains many tools that can be used for zooming, panning, and identifying map extent tools for the map.



To zoom-in:



1. Select the Zoom-in icon.
2. Click once within the main map and the map will zoom-in 25%. The map centers the zoomed in area around the coordinates of where you clicked.
3. OR Click and drag a box around the area you want to zoom in to in the main map. When you release the left mouse button the map zooms to the area you selected.



To zoom-out:



1. Select the Zoom-out icon.
2. Click once within the main map and the map will zoom-out 25%. The map centers the zoomed out area around the coordinates of where you clicked.

To pan the map:



1. Select the Pan icon.
2. Click and drag within the main map.

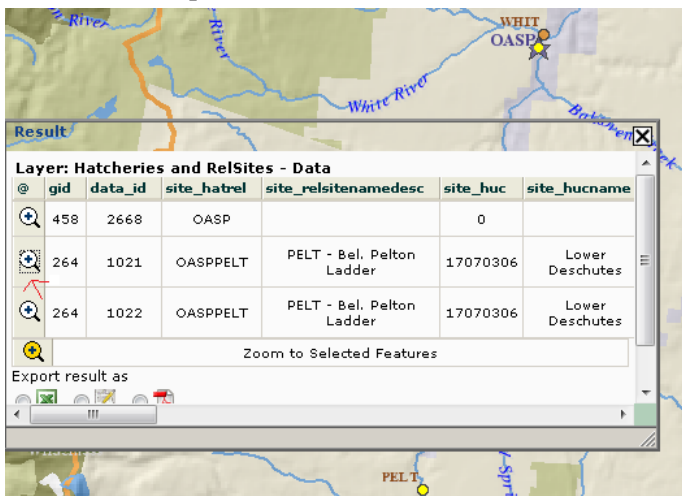
To zoom to selected sites:

1. After using the **Search for** drop-down menu and choosing a specific site or location, release site(s) are selected (identified by yellow circles) and the map zooms the selected sites.
2. If the user then uses the pan, zoom-in or zoom-out tool and moves the map away from the selected site(s) (changes the map extent), the user can use the **Zoom to Selected Sites** tool to and zoom back to the selected sites.



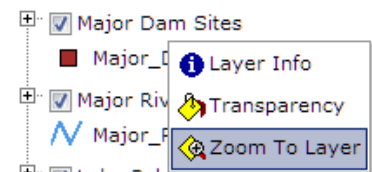
To zoom to a site listed in the result dialog box:

1. After using the **Search for** drop-down menu and choosing a specific site or location, release site(s) are selected (identified by yellow circles), the map zooms the selected sites and opens the **Result** dialog box.
2. From within the **Result** dialog, scroll to the site you want to zoom-in to and click on the magnifying glass with a plus sign to the left of the site’s data row in the Result dialog box.
3. The map zooms to the selected site. The following example zooms to the release site “PELT”.



To zoom-out 25% to a specific data layer:

- Right-click on the data layer name in the legend.
- Choose Zoom to data layer. This action zooms-out about 25% of the current extent for the selected data layer.



To zoom to full extent (display the entire CRB region):


- Click the zoom to Full extent icon.



To return to the most recent previous extent (like back button in a browser):

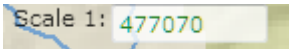
- Click the Back icon. 

To go forward to last extent (like the forward button in a browser):

- Click the Forward icon. 

Current Scale and Current Location Tools

To identify the current numerical map scale:

- The current map scale can be found in the current representative scale text box in the upper left side of the main map. The numerical scale or representative scale of a map indicates the relationship of distance measured on a map to the corresponding distance on the ground. An RF of 1/50,000 or 1:50,000 means that one unit of measure (any measurement unit) on the map is equal to 50,000 units of the same measure on the ground. 

To visually evaluate map distance in miles:

- Use the scale bar located in the lower left corner of the main map. 

To identify the X and Y location of the cursor in the main map:

- As you move the mouse cursor around the map, the x and y location tool (located in the lower left corner of the main page) displays the coordinates of your cursor, in its current position. These coordinates will change as the cursor is moved.

X: 217581 Y: 5357073 

NOTE: *The map projection used in the application is UTM Zone 11 North.*

To identify the where the map is zoomed into in the Columbia River Basin region:

- Use the overview map (located in the lower right-hand corner of the application). The overview map identifies the regional area that currently being viewed by the user. A red box will appear when the current map scale is between the pre-programmed RFs of 1:6,000,000 through 1:250,000. A red plus “+” symbol will appear when the current map scale is between the pre-programmed scales of 1:200,000 to 1:25,000.



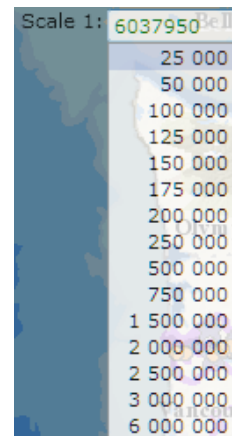
1:6,000,000 to 1:250,000



1:200,000 to 1:25,000

To change the current RF scale to a pre-programmed RF scale:

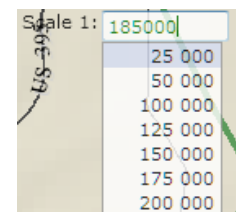
- Click once in the current representative scale text box and the pre-programmed RF drop-down menu appears. Select the pre-programmed RF scale you want. The map will zoom to the selected RF scale.



To change the current RF scale to a custom RF scale:

- Click once in the current representative scale text box, delete the current RF scale, type your custom RF scale and press the Enter key.

NOTE: It is important to note that all data become invisible or unavailable at the fine scale of 1:24,000 or finer.

















To use the zoom slider bar:

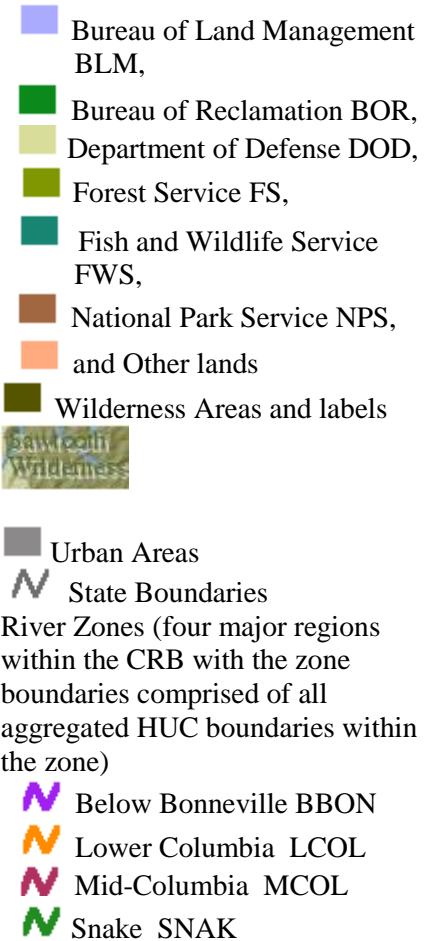















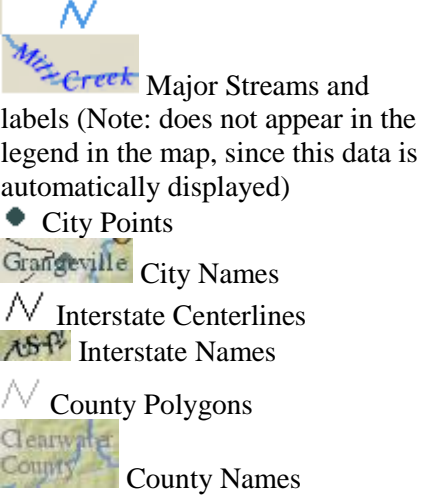







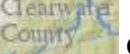
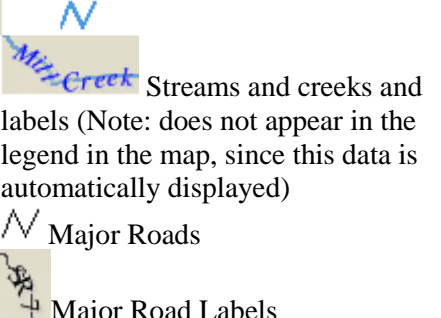



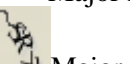
- Click and drag slider up to zoom-in or down to zoom-out. OR Click on the “+” to zoom-in or on the “-“ to zoom-out. OR Use the scroll wheel on your mouse to zoom-in and zoom-out. The zoom slider bar is located on the right side of the main map.



Displaying or hiding base map reference data (regional, river zonal and local data) and hatchery and release site data

There are four groups of spatial data in the Hatchery Release Data Application. These include: (1) Hatcheries and Release Sites; (2) Regional Scale base map data; (3) River Zone Scale base map data; and (4) Local Scale base map data. Each group of data can be expanded to show the spatial data or layers within the group or collapsed to only show the group name. In addition, each layer can be expanded to show the layer's symbol and color legend or collapsed to only show the layer name. Each group can be viewed at specific RF scales. For instance, the local scale becomes visible at an RF of 1: 260,000 (set at this scale for when the computer completes the auto zoom-in from a specified search criteria, such as a chosen hatchery and its release sites). The legend labels local scale data available for the pre-programmed RF of 1:250,000. *It is important to note that all data become invisible or unavailable at the fine scale of 1:24,000 or finer.* The following table lists each spatial data group and the layers found within each group. For data source information and other metadata about each of the layers, see the **FPC Hatchery Release Data Mapping Application Metadata Document**.

Spatial Data Group	Layers	Layer Visibility RF Scales
Hatcheries and RelSites	 Hatcheries  RelSites (release sites)  Hatchery Code Labels (4 letter FPC hatchery codes – see metadata for list of all hatchery codes)  Release Site Code Labels (4 letter FPC release site codes – see metadata for list of all relsite codes)  Selected Hatchery / Release Sites   Columbia River Basin (CRB) HUCs (watersheds)	Appears at all scales Appears at all scales Appears at all scales, after layer is checked Appears at all scales, after layer is checked Appears at all scales Appears at all scales, after layer is checked
Regional Scale – 1 to 6,000,000 (note: this is the visible pre-programmed RF scale)	 Major Cities and labels (Note: does not appear in the legend in the map, since this data is automatically displayed)  Major Dams (Federal Columbia Power System Dams)   Major Rivers (major rivers in the CRB region)  Land  Lakes Federal Lands (federally owned lands) and labels 	1:6,000,000+ to 1:2,599,999 1:6,000,000 + to 1:24,000 1:6,000,000 + to 1:2,599,999 1:6,000,000 + to 1:24,000 1:6,000,000 + to 1:24,000 1:6,000,000 + to 1:24,000

	 <p>  Bureau of Land Management BLM,  Bureau of Reclamation BOR,  Department of Defense DOD,  Forest Service FS,  Fish and Wildlife Service FWS,  National Park Service NPS,  and Other lands  Wilderness Areas and labels   Urban Areas  State Boundaries River Zones (four major regions within the CRB with the zone boundaries comprised of all aggregated HUC boundaries within the zone)  Below Bonneville BBON  Lower Columbia LCOL  Mid-Columbia MCOL  Snake SNAK </p>	<p>1:6,000,000 + to 1:24,000</p> <p>1:6,000,000 + to 1:24,000</p> <p>1:6,000,000 + to 1:24,000</p> <p>1:6,000,000 + to 1:24,000</p>
<p>River Zone Scale – 1 to 2,500,000 (note: this is the visible pre-programmed RF scale)</p>	 <p>   Major Streams and labels (Note: does not appear in the legend in the map, since this data is automatically displayed)  City Points  City Names  Interstate Centerlines  Interstate Names  County Polygons  County Names </p>	<p>1:2,600,000 to 1:24,000</p> <p>1:2,600,000 to 1:24,000</p> <p>1:2,600,000 to 1:24,000</p> <p>1:2,600,000 to 1:24,000</p> <p>1:2,600,000 to 1:24,000</p> <p>1:2,600,000 to 1:24,000</p>
<p>Local Scale – 1 to 250,000 (note: this is the visible pre-programmed RF scale)</p>	 <p>   Streams and creeks and labels (Note: does not appear in the legend in the map, since this data is automatically displayed)  Major Roads  Major Road Labels </p>	<p>1:160,000 to 1:24,000</p> <p>1:260,000 to 1:24,000</p>

	<input type="checkbox"/> Dams	1:260,000 to 1:24,000
	<input checked="" type="checkbox"/> Riley Creek Diversion Dam Dam labels	1:260,000 to 1:24,000
	<input checked="" type="checkbox"/> Places	1:260,000 to 1:24,000
	<input checked="" type="checkbox"/> Fenn Place names	1:260,000 to 1:24,000

Important Notes:

- Some spatial data layers contain similar places or locations. The layers available at the coarser RF scales were digitized at coarser scales, hence if these are left turned on when you zoom-in point or line locations may be slightly different locations when compared to the same place in the more detailed data layers. It is a good idea to turn off the coarser layers as you zoom in. The coarser layers are available at the more detailed scales, because in some instances, the same location may not be in both data sets. It a good idea to turn data layers on and off as you zoom-in and out.
- It is important to note that all data become invisible or unavailable at the fine scale of 1:24,000 or finer.

To expand a group or data layer:

- Click on the + “plus” sign near the group or layer name.

To collapse a group or data layer:

- Click on the - “minus” sign near the group or layer name.

Collapsed group Regional Scale - 1 to 6 000 000

Expanded group Regional Scale - 1 to 6 000 000
 Major Dam Sites
 Major_Dams

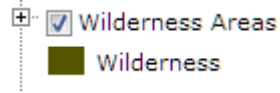
To display a layer:

- Check the checkbox on the left side of the layer name by clicking on the box.

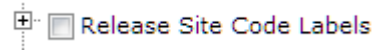
To hide a layer:

- Uncheck the checkbox on the left side of the layer name by clicking on the box.

Expanded and checked (or visible) data layer



Collapsed and unchecked (or hidden) data layer



To make a data layer available and visible on the map:

- Some data layers are only available to be made visible on the map at certain scales (*Note: these scales are listed in the tables in pages 9-11*). Zoom-in to the specified visibility scale (see Table 1) and check the checkbox on the left side of the layer name by clicking on the box.

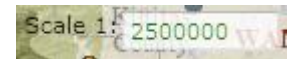
Expanded and unavailable data layer.

City points are available from 1:2,600,000 to 1:24,000.



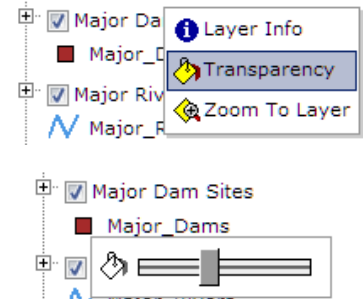
Expanded, available and visible data layer

Current RF is set at the pre-programmed RF scale of 1:2,500,000.



To make a layer more transparent to see objects underneath the current layer:

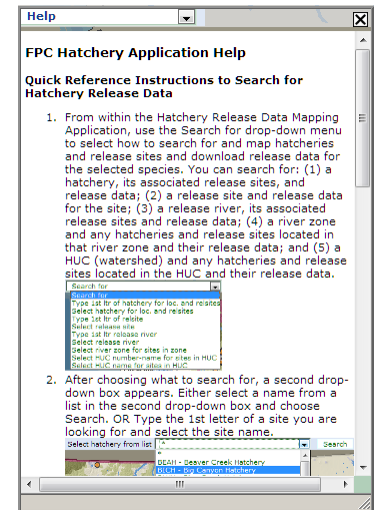
- Right-click on the data layer name and choose Transparency.
- The transparency slider appears. Click and drag the slider to the right to make the data layer more transparent or to the left to make the layer more opaque.



Getting help and layer information and metadata

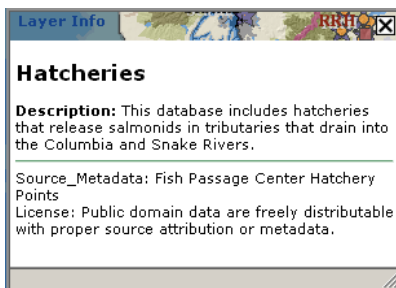
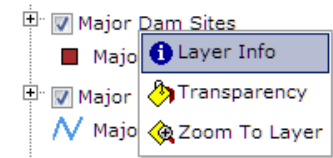
To get help within the Hatchery Release Data Mapping Application:

- Click on the “? Help” link found in the upper right corner of the Hatchery Mapping Application. The information found in this help include the “Quick Reference Instructions to Search for Hatchery Release Data”, a link to the “Detailed instructions for using the Hatchery Mapping Application” and a link to the “Hatchery Release Data Mapping Application Metadata.”
- If a user clicks on one of the links in the Help, a new tab or window opens with the requested document. This allows the user to read the requested document and keep the Hatchery Mapping Application open.



To find information or metadata on a data layer:

- Right-click on the layer name and choose Layer information.
- The layer information dialog box appears. The layer information includes layer title, visibility scale, source information and a link to the layer’s FGDC metadata document.



Identifying sites using the Tool Tip, Identify or Select tools

The third section of the toolbar includes three tools for helping the user identify hatcheries, release sites and lakes. These tools are the Tool Tip, Identify and Select tools. With the **Tool tip** tool, the user is able to select the layer they are interested in (Hatchery, Relsite or Lake polygon), slide the mouse across the map and find out the names of each of the site. The names in the Tool Tip dialog box change as the mouse moves across the map. The **Identify** tool brings up all of the data available for the map location identified by clicking on the map. The user is not able to select the type of data that appears in the result dialog box. All data available appears in the result dialog box for the selected location including: release data, hatchery names, release site names, lake names and major river names (only available at scales coarser than 1:2,500,000). Finally, the **Select** tool allows the user to choose the type of data to open in the result dialog box including: Release data, Hatchery names, Release Site names, lake names and major river names (only available at scales coarser than 1:2,500,000). The user chooses the select tool, chooses the information wanted (as previously identified), clicks on a location, the location is highlighted and the map zooms to the highlighted location. Hatcheries and release sites are highlighted yellow circles, major rivers are highlighted yellow lines and lake polygons are highlighted a light green. *Note: All other data layers are identified by turning on label layers. Some data layers have their labels automatically turned on (i.e. stream layers and stream label layers are automatically turned on).*

To identify hatcheries, release sites or lakes using the Tool Tip Tool:

The Tool Tip tool is used to identify the names of several objects quickly. It allows the user to drag the mouse across the map and see the names the objects in the Tool Tip dialog box. *Note: All other data layers are identified by turning on label layers. Some data layers have their labels automatically turned on (i.e. stream layers and stream label layers are automatically turned on).*

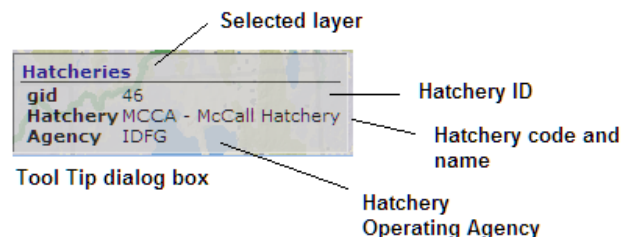
1. Click on the tool tip tool in the toolbar.



2. Choose either Hatcheries, Relsites or Lakes depending on the type of site you want to identify from the “Apply on layer” drop-down menu found in the upper right corner of the main map.



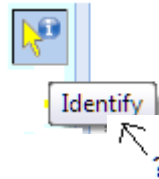
3. Drag the mouse cursor over an object from the chosen layer (chosen in step 2).
4. The object id, code, name other information will appear in the Tool Tip dialog box.



To identify Release data, Hatcheries, Relsites, Lakes or Major Rivers using the Identify Tool:

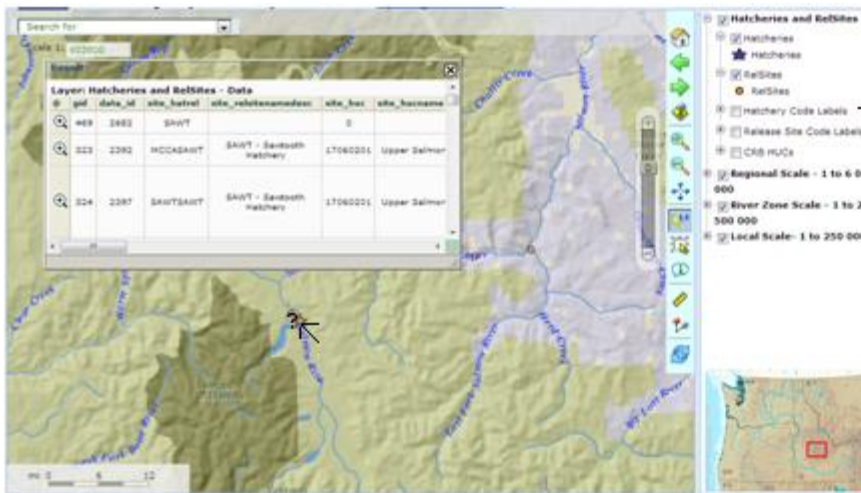
The Identify tool allows the user to retrieve all of the available data at a specified location. The user is not able to select the type of data returned in the result dialog box and the map does not zoom to the specified location. The following are the types of data available for downloading in the result box, depending on where the user clicks: release data, hatchery names, release site names, lake names and major river names (only available at scales coarser than 1:2,500,000). *Note: All other data layers are identified by turning on label layers. Some data layers have their labels automatically turned on (i.e. stream layers and stream label layers are automatically turned on).*

1. Zoom-in to the object you want to identify.
2. Click on the Identify tool in the tool bar.
3. The mouse cursor changes to an arrow with a question mark.
4. Click on the object you want to identify.
5. The result dialog box appears. Depending on where the user clicks, the data retrieved may include hatchery names, release site names, release data, lake names and major river names (only available at scales coarser than 1:2,500,000).



mark.

Note: release data are only available with the Identify Tool if the hatchery and release labels feature is turned OFFs. Once the labels have been turned on, the map's focus is on these data sets. The user can use Tool Tips to identify names and then use the Identify tool to return release data, as well as all of the other types of available data at that location. If the user has turned on hatchery and release labels in the map, the user can select the hatchery or release site from the SEARCH FOR drop-down lists to retrieve release data.



Hatchery and Release Site labels have NOT been turned on.

In the example above, the user clicked on a particular release site. Note that the hatchery and release site code labels feature is turned OFF.

Information in the Result dialog box includes data from the following layers (in order from top to bottom):

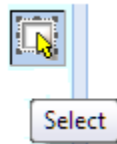
Hatcheries and RelSites Data (or release data for the chosen species), Hatcheries (hatchery code, name and agency) and RelSites (release site code and name).

To identify Release data, Hatcheries, Relsites, Lakes or Major Rivers using the Select Tool:

The **Select** tool allows the user to choose the type of data to open in the result dialog box including: Release data, Hatchery names, Release Site names, lake names and major river names (only available at scales coarser than 1:2,500,000). The user chooses the select tool, chooses the information wanted, clicks on a location, the location is highlighted and the map zooms to the highlighted location. Hatcheries and release sites are highlighted yellow circles, major rivers are highlighted yellow lines and lake polygons are highlighted a light green. *Note: All other data layers are identified by turning on label layers. Some data layers have their labels automatically turned on (i.e. stream layers and stream label layers are automatically turned on).*

1. Partially zoom-in to the object you want to identify, making it easier to click on top of the object.

2. Click on the Select tool in the tool bar.



3. The mouse cursor changes to an arrow with a question mark.

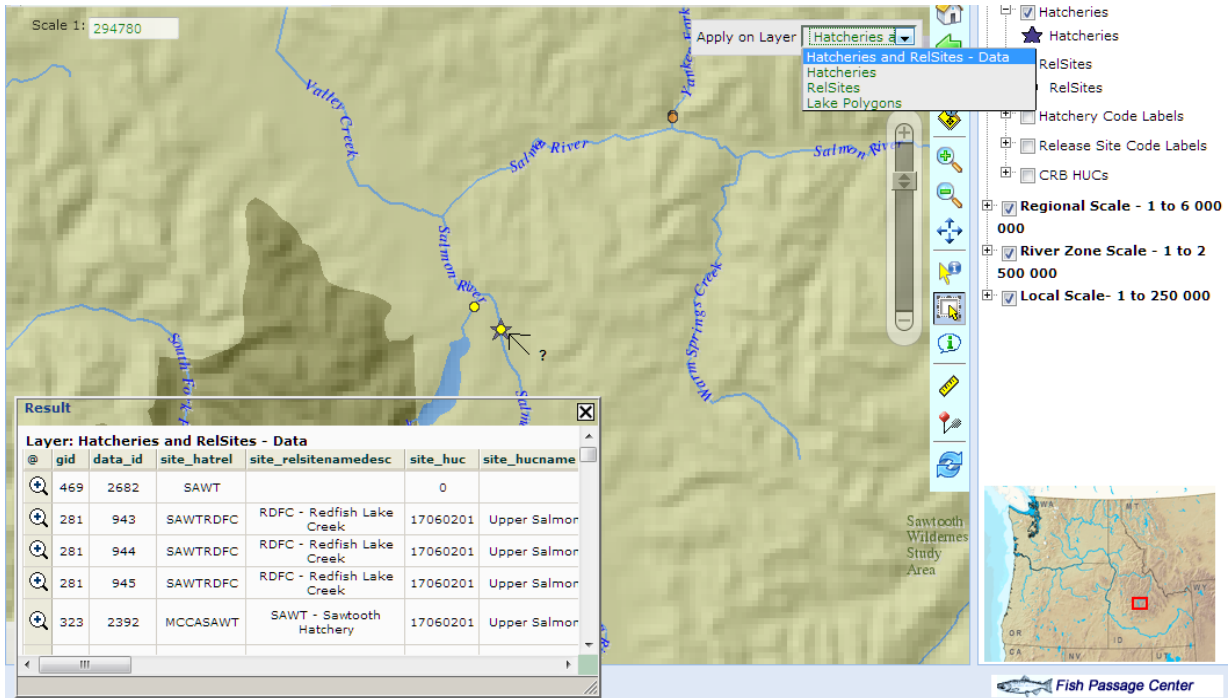


4. Select the type of data you want to download from the “Apply on Layer” drop-down menu. Choose from: Release data, Hatchery names, Release Site names, lake names and major river names (only available at scales coarser than 1:2,500,000).



Note: release data are only available with the Select Tool if the hatchery and release labels feature is turned OFF. Once these labels have been turned on, the map’s focus is on these data sets. The user can use Tool Tips to identify names and then use the Select tool to return release data or another select data type. If the user has turned on hatchery and release labels in the map, the user can select the hatchery or release site from the SEARCH FOR drop-down lists to retrieve release data.

5. Click on the object you want to identify.
6. The result dialog box appears with available information from the data type selected in the “Apply on Layer” drop-down menu for the selected location.




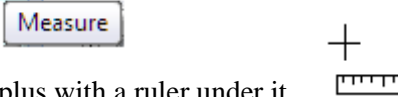
In the example above, the user has chosen “Hatcheries and RelSites – Data” (release data) from the “Apply on Layer” dialog box and clicked on a combination Hatchery/RelSite (SAWT). Note that the hatchery and release site code labels feature is turned OFF.

Measuring distances, pinpointing and labeling custom locations on maps, printing maps and downloading maps

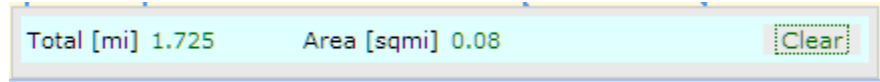
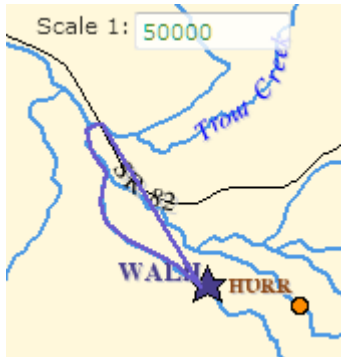
The Hatchery mapping application allows users to measure distances and areas in the map, locate and label custom locations on the map and print or download the current map extent.

To measure route distances in the map:

1. Zoom-in to the area you want to measure.

2. Select the distance tool. 
3. The mouse cursor turns into a plus with a ruler under it. 
4. Click at the beginning point of the route you want to measure.

- Click once at each turn in the route you want to measure. The route line appears as a dark blue line in the map.
- Double-click to stop measuring the route. The measure tool can be used for measuring lines or polygons.



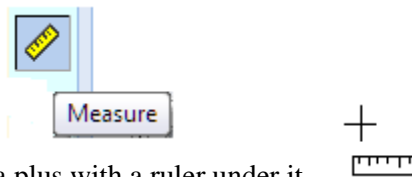
The example above shows the distance along the stream from the WALH hatchery to the road. Hence, the user only digitized the route along the stream to the road and then double-clicked to end the measured route. The distance dialog box (found in the lower right corner of the map) shows the total miles along the measured route 1.725 miles. The area measure in this example is not useful.

- To begin another measured route, click the clear button in the distance dialog box. OR Choose another tool to turn off the measure tool.

To measure areas in the map:

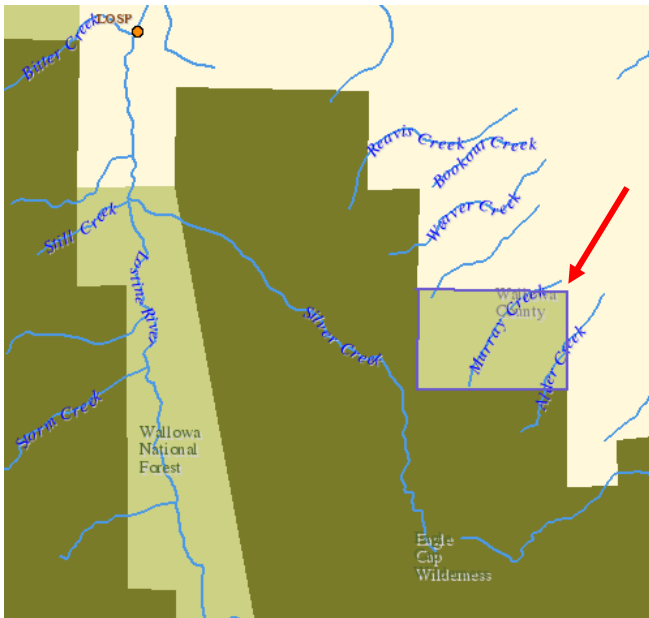
- Zoom-in to the area you want to measure.

- Select the distance tool.



- The mouse cursor turns into a plus with a ruler under it.
- Click at the beginning point of the area you want to measure.

- Click once at each turn in the area you want to measure. The outline of the area appears as a dark blue line in the map. Continue clicking until you return to where you started digitizing the area you wanted to measure.
- Double-click to stop measuring digitizing.



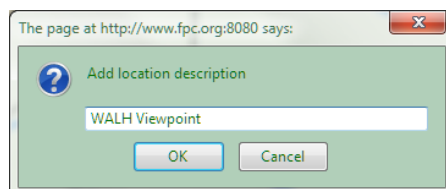
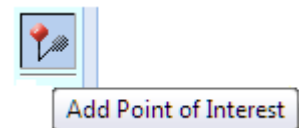
Total [mi]	5.111	Area [sqmi]	1.54
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In the above example, the user is measuring the small corner of Wallowa National Forest on the east side of the Eagle Cap Wilderness (as indicated by the red arrow in the figure above). The outline of the measured area appears dark blue. The highlighted area is 1.54 square miles and the perimeter of the area is 5.1 miles.

- To begin another measured route, click the clear button in the distance dialog box. OR Choose another tool to turn off the measure tool.

To pinpoint and label custom locations in the map:

- Zoom-in to the desired area where you want to pinpoint your custom location.
- Select the Point of Interest tool from the toolbar.
- Click in the map where you want to add your custom location.
- The add location description dialog box appears.



- Type in the name or label of the custom location.
- Choose OK. The point appears red and the label is attached to the point.



In the example above a viewpoint of the Wallowa Acclimation Pond had been labeled by the user.

7. Choose another tool from the toolbar to turn off the point of interest labeling tool.

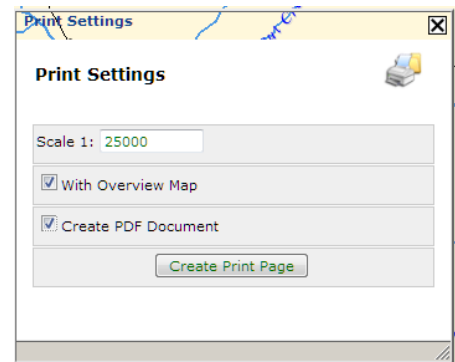
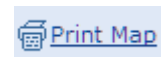
To refresh or redraw the map:

- Click the Refresh tool.



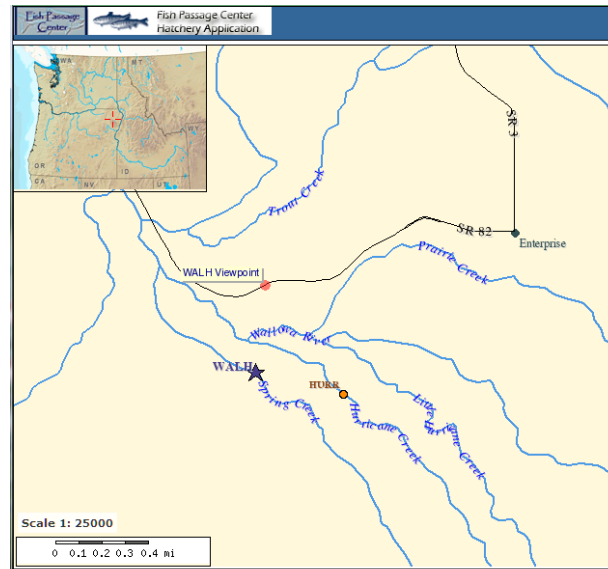
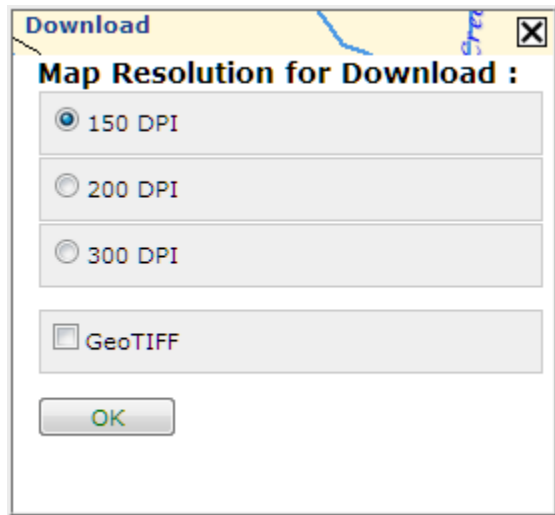
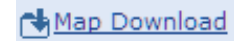
To print the current map extent:

1. Select the Print map link (found in the upper right corner of the application).
2. The Print Settings dialog box appears in the center of the map.
3. The current RF scale appears in the dialog box. Choose whether or not to include the Overview map in the printed map. *Note: The .pdf option sometimes spans many pages due to the long legend.*
4. Choose the Create Print Page button.
5. The Print View page opens in a new tab or window. From your browser, choose File / Print.



To download the current map extent in digital form:

1. Choose the Map Download link (found in the upper right corner of the application).
2. The Download dialog box appears in the center of the map.
3. Choose the resolution of the image you want to save and whether or not you want to create a GeoTIFF. A GeoTIFF is a georegistered TIFF image (registered in the UTM Zone 11 North projection). Selecting GeoTiff will only create a tiff image and your browser will try to open the tiff image in your local image



software (i.e. Photoshop). Leaving the GeoTIFF option turned off, creates a .png image and opens it in a new tab or window in your browser.

4. To save the .png image, right-click on the image and choose Save Image as. Name and save the image to your local hard drive.

- ★ Hatcheries
- RelSites
- Hatchery Code Labels
- Release Site Code Labels
- ◆ Places_250000
- Place Names
- ∨ Major_Roads
- ∨ Major_Rd_labels
- Major Dam Sites
- Dams
- Dam_labels
- Lake Polygons
- Wilderness Areas
- Federal_lands
 - BLM
 - DOD
 - FWS
 - Other
 - BOR
 - FS
 - NPS
- River_Zones
 - ∨ BBON
 - ∨ MCOL
 - ∨ LCOL
 - ∨ SNAK
- ∨ State Polygons

APPENDIX OF SEARCH FOR EXAMPLES

Search for fall Chinook releases from Lions Ferry Hatchery

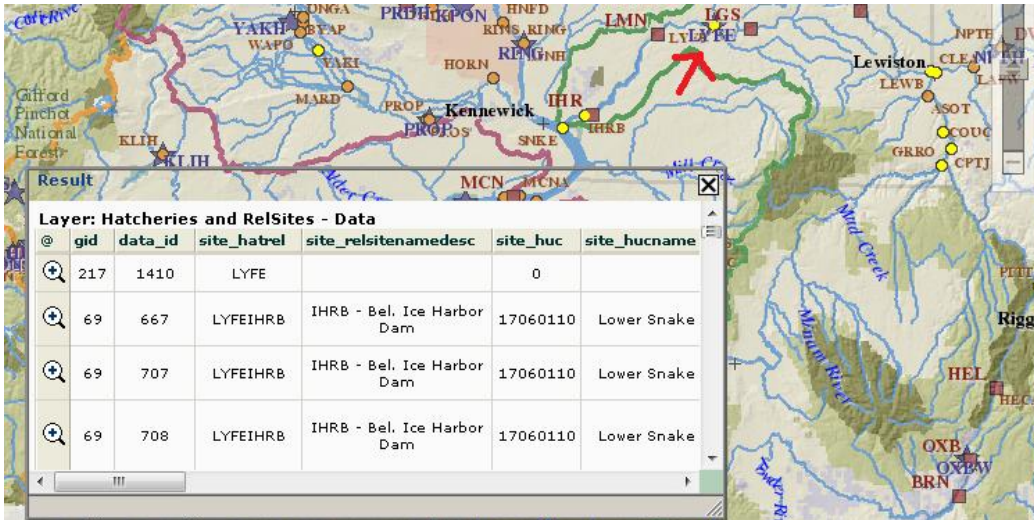
1. Select **Hatchery Data / Hatchery Queries** from the main menu. Select the link **Hatchery Release Data Map Query**. This opens the FPC Hatchery App – Instructions page.
2. From the **Instructions page** choose **Fall Chinook**.
3. Click the **Open Hatchery Release Data App button**. This opens a FPC Hatchery Release Data Mapping Application for fall Chinook.
4. From the Search for drop down menu choose: **Select hatchery for loc. and relsites**.
5. From the **Select hatchery from list** drop-down menu choose LYFE Lyons Ferry Hatchery.
6. Click on the Search button.



7. The map zooms to LYFE and its associated release sites.
8. Click on the checkbox next to Hatchery Code Labels and Release Site Code Labels to label the

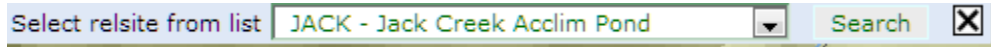
sites in the main map.

9. The following graphic shows the location of LYFE and its associated release sites for fall Chinook.

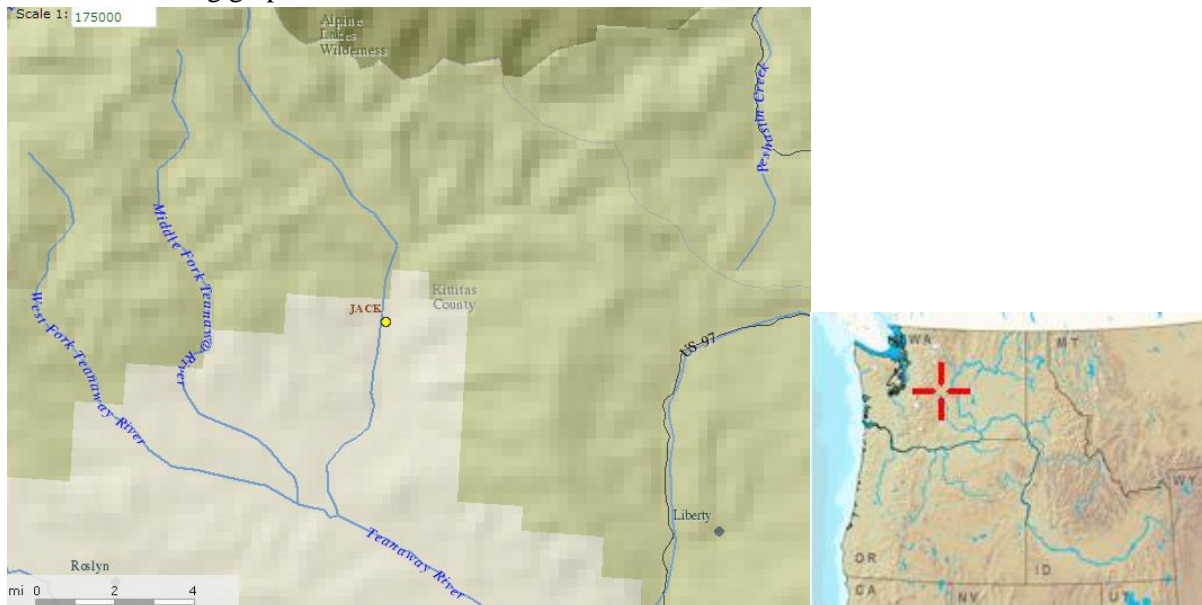


Search for spring Chinook releases at the release site Jack Creek Acclimation Pond

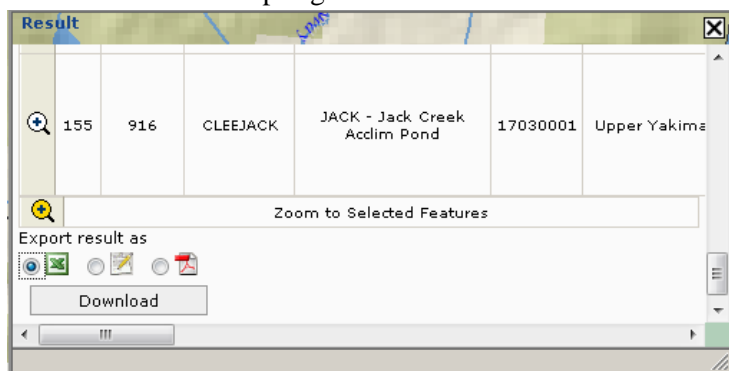
1. Select **Hatchery Data / Hatchery Queries** from the main menu. Select the link **Hatchery Release Data Map Query**. This opens the FPC Hatchery App – Instructions page.
2. From the **Instructions page** choose **Spring Chinook**.
3. Click the **Open Hatchery Release Data App button**. This opens a FPC Hatchery Release Data Mapping Application for spring Chinook.
4. From the Search for drop down menu choose: **Select release site**.
5. From the **Select rel site from list** drop-down menu choose JACK – Jack Creek Acclim Pond.
6. Click on the **Search** button.



10. The map zooms to JACK and its associated release sites.
11. Click on the checkbox next to Release Site Code Labels to label the site in the main map.
12. Click on checkboxes next to other base map spatial data layers, such as Major Roads and Places_250000.
13. The following graphics show the location of JACK.



14. If you click the **X** on the Result dialog box, it closes the box and makes it easier to see the main map.
15. To re-open the Result dialog box, click the **Search** button again.
16. Scroll to the bottom of the box and click on the radio button next to the **Excel** icon and choose **Download** to download the spring Chinook release data for Jack Creek Acclimation Pond.



Find all hatcheries and release sites for spring Chinook in the HUC 17030001 Upper Yakima

1. Select **Hatchery Data / Hatchery Queries** from the main menu. Select the link **Hatchery Release Data Map Query**. This opens the FPC Hatchery App – Instructions page.
2. From the **Instructions page** choose **Spring Chinook**.
3. Click the **Open Hatchery Release Data App button**. This opens a FPC Hatchery Release Data Mapping Application for spring Chinook.
4. From the Search for drop down menu choose: **Select HUC number-name for sites in HUC**.
5. From the **Select HUC number from list** drop-down menu choose 17030001 Upper Yakima.

Select HUC number from list

6. Click on the **Search** button.
7. The map zooms to HUC 17030001 Upper Yakima and highlights hatcheries and release sites located within this HUC.
8. Click on the checkbox next to Hatchery Code Labels, Release Site Code Labels and CRB HUCs to display HUC boundaries and label the sites in the main map.
9. Click on checkboxes next to other base map spatial data layers, such as Interstates and City Points.
10. The following graphics show the location of HUC 17030001 Upper Yakima, highlights the four spring Chinook release and the one hatchery located sites in the HUC. The result dialog box has release data for these sites.

